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Abstract

SPECIAL SAFEGUARD AND ERECTION FEATURES OF THE SELNI'S "ENRICO FERMI" NUCLEAR POWER PLANT

The design of the "Enrico Fermi" Nuclear Power Plant, SELNI, is presented and discussed from the safety standpoint.

The particular technical solutions adopted for taking into account the plant site characteristics and to increase the degree of safety typical of this type of plant.

Some special features of civil engineering, with particular reference to the problem of penetrations and to the various systems adopted to perform the big volume castings under particular conditions, the very thick floor form installation, the special linings with particular reference to the stainless steel lining for contaminable pools, etc. are also described.

The various steps of the electromechanical erections at the "Enrico Fermi" Nuclear Power Plant, SELNI, are also described. In particular, the field organization, the construction schedule and the description of the most important erection problems of a nuclear power plant as, for instance, lifting and location of heavy parts, welding performance and inspections thereof, seal and operating inspections, etc. are put in evidence.

The aim of the report is to bring the contribution of a direct experience, the construction and erection works having been performed directly by SELNI.